ES/IR&DC

The Director of Central Intelligence
Washington, D.C. 20505

Intelligence Research and Development Council

1 DEC 1982

ICS/IRDC 82-4043

MEMORANDUM FOR: Members of the Intelligence Research and Development Council

SUBJECT: IR&DC Report: "Technology Considerations for Improved Intelligence Capabilities"

1. The DCI and DDCI have reviewed the subject report and have asked that we provide certain additional information in regards to our recommendations concerning a VHSIC/VLSI facility, Computer Aided Design, Low Power High Density Storage Technology, and Artificial Intelligence. (S)

2. Therefore to accomplish this task, I have asked [redacted] to sponsor a report on the various alternates for providing VHSIC/VLSI capabilities for the Intelligence Community to include the provision of Computer Aided Design facilities. And in addition, I have asked Evan Hineman to develop a report on Community Low Power High Density Storage requirements and also, to prepare a report on specific Artificial Intelligence applications which may show promise within the Intelligence Community. (S)

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3. I ask that you please provide support, as requested, for the completion of these tasks. I would like the reports to be available for Council consideration by the end of February. (C)

[redacted]

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Chairman

cc: Deputy Director of Central Intelligence

Attachment: DDCI Memorandum

[redacted]

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SECRET

The Deputy Director of Central Intelligence

Washington, D.C. 20505

22 November 1982

MEMORANDUM FOR: Chairman, Intelligence Research and Development Council

SUBJECT: ICRD Review

REFERENCE: Review of Intelligence Community Research and Development Programs, 28 October 1982

1. Before commenting on the recommendations to acquire a VHSIC/VLSI facility, the Director and I would like the Council to explore a little more exactly what would be involved. Our first blush reaction is prompted by fear that the cost may be too high for the Community to bear. Rather than fund a facility of this nature, possibly we could piggyback on existing commercial facilities to explore circuits which might be unique for intelligence programs.

2. We think the same can be said of computer aided design. In fact, both these issues should be looked at simultaneously. Again, I think we can obtain the specificity and security we need for the Community without the attended cost by deferring to contractor capabilities.

3. We believe that the low powered, high density storage technology, while of tremendous benefit to the Intelligence Community, should be pursued by other DoD and commercial programs as well, thus permitting the Intelligence Community to capitalize on developmental work elsewhere. It is our understanding that magnetic bubble devices, while holding great promise, seem to have been abandoned by industry for greater capacity devices.

4. At any rate, we would welcome the Committee developing a consolidated set of requirements unique to our needs and we could at that time consider levying the requirements on the DoD micro-electronics program.

5. Artificial intelligence does indeed hold great promise and can be of tremendous value to the Intelligence Community. We would like to hear more of specific recommendations to that end.

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John N. McMahon

CL BY SIGNER
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DERIVED FROM COL 9-82

SUBJECT: IR&DC Report: "Technology Considerations for Improved Intelligence Capabilities"

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